

Canada - The probabilities of a hip fracture in men

The following tables give the 10-year probability (%) of a hip fracture according to body mass index (BMI kg/m²), the number of clinical risk factors (CRF) and age. Each table provides a mean estimate and a range, based on the epidemiology of Canada. The range is not a confidence interval, but because the weight of different risk factors varies, is a true range.

Age = 50 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	0.3	0.2	0.1	0.1	0.1	0.0	0.0
1	0.6 (0.4-1.3)	0.4 (0.2-0.7)	0.2 (0.1-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)	0.1 (0.1-0.2)	0.1 (0.1-0.1)
2	1.2 (0.6-2.6)	0.7 (0.3-1.5)	0.4 (0.2-0.8)	0.3 (0.2-0.6)	0.2 (0.1-0.5)	0.2 (0.1-0.4)	0.1 (0.1-0.3)
3	2.3 (0.9-4.6)	1.3 (0.5-2.6)	0.7 (0.3-1.4)	0.6 (0.2-1.1)	0.4 (0.2-0.9)	0.3 (0.1-0.7)	0.3 (0.1-0.5)
4	4.2 (1.7-6.9)	2.4 (0.9-3.9)	1.3 (0.5-2.2)	1.0 (0.4-1.7)	0.8 (0.3-1.3)	0.6 (0.2-1.0)	0.5 (0.2-0.8)
5	7.4 (3.4-9.8)	4.3 (1.9-5.7)	2.4 (1.1-3.2)	1.9 (0.8-2.5)	1.4 (0.7-2.0)	1.1 (0.5-1.5)	0.9 (0.4-1.2)
6	13	7.5	4.2	3.3	2.6	2.0	1.5

Ten year probability of hip fractures (%) according to BMI, the number of clinical risk factors (CRF) and age in men from Canada.

Age = 55 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	0.6	0.3	0.2	0.1	0.1	0.1	0.1
1	1.1 (0.8-2.0)	0.6 (0.4-1.1)	0.4 (0.2-0.6)	0.3 (0.2-0.5)	0.2 (0.1-0.4)	0.2 (0.1-0.3)	0.1 (0.1-0.2)
2	2.1 (1.1-4.0)	1.2 (0.6-2.3)	0.7 (0.4-1.3)	0.5 (0.3-1.0)	0.4 (0.2-0.8)	0.3 (0.2-0.6)	0.2 (0.1-0.5)
3	3.7 (1.7-6.9)	2.2 (1.0-4.1)	1.2 (0.5-2.3)	0.9 (0.4-1.8)	0.7 (0.3-1.4)	0.6 (0.3-1.1)	0.4 (0.2-0.8)
4	6.5 (3.0-10)	3.8 (1.7-6.1)	2.2 (1.0-3.5)	1.7 (0.7-2.7)	1.3 (0.6-2.1)	1.0 (0.5-1.6)	0.8 (0.3-1.3)
5	11 (5.8-14)	6.7 (3.5-8.7)	3.8 (2.0-5.1)	3.0 (1.5-4.0)	2.3 (1.2-3.1)	1.8 (0.9-2.4)	1.4 (0.7-1.8)
6	18	11	6.6	5.2	4.0	3.1	2.4

Age = 60 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.1	0.6	0.4	0.3	0.2	0.2	0.1
1	1.9 (1.4-3.1)	1.1 (0.8-1.8)	0.7 (0.5-1.0)	0.5 (0.4-0.8)	0.4 (0.3-0.6)	0.3 (0.2-0.5)	0.2 (0.2-0.4)
2	3.4 (2.0-6.0)	2.0 (1.2-3.6)	1.2 (0.7-2.1)	0.9 (0.5-1.6)	0.7 (0.4-1.3)	0.5 (0.3-1.0)	0.4 (0.2-0.8)
3	5.9 (3.0-10)	3.6 (1.8-6.3)	2.1 (1.0-3.7)	1.6 (0.8-2.9)	1.2 (0.6-2.2)	1.0 (0.5-1.7)	0.7 (0.4-1.3)
4	9.9 (5.3-15)	6.2 (3.2-9.5)	3.6 (1.8-5.6)	2.8 (1.4-4.4)	2.2 (1.1-3.4)	1.7 (0.9-2.6)	1.3 (0.7-2.0)
5	16 (9.7-20)	10 (6.2-13)	6.2 (3.7-8.0)	4.8 (2.9-6.2)	3.7 (2.2-4.8)	2.9 (1.7-3.8)	2.2 (1.3-2.9)
6	25	17	10	8.1	6.3	4.9	3.8

Ten year probability of hip fractures (%) according to BMI, the number of clinical risk factors (CRF) and age in men from Canada.

Age = 65 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	1.9	1.1	0.7	0.5	0.4	0.3	0.2
1	3.2 (2.5-4.6)	2.0 (1.5-2.8)	1.2 (0.9-1.7)	0.9 (0.7-1.3)	0.7 (0.5-1.0)	0.5 (0.4-0.8)	0.4 (0.3-0.6)
2	5.4 (3.4-8.3)	3.4 (2.1-5.4)	2.0 (1.3-3.3)	1.6 (1.0-2.5)	1.2 (0.7-2.0)	0.9 (0.6-1.5)	0.7 (0.4-1.2)
3	8.8 (5.1-14)	5.7 (3.2-9.3)	3.4 (1.9-5.7)	2.7 (1.5-4.5)	2.1 (1.1-3.4)	1.6 (0.9-2.7)	1.2 (0.7-2.0)
4	14 (8.7-20)	9.3 (5.6-14)	5.8 (3.4-8.6)	4.5 (2.6-6.7)	3.5 (2.0-5.2)	2.7 (1.5-4.0)	2.1 (1.2-3.1)
5	21 (15-26)	15 (10-18)	9.5 (6.5-12)	7.4 (5.0-9.3)	5.7 (3.9-7.2)	4.4 (3.0-5.6)	3.4 (2.3-4.3)
6	31	23	15	12	9.4	7.3	5.6

Age = 70 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	3.1	2.0	1.2	1.0	0.7	0.6	0.4
1	5.4 (4.1-6.6)	3.6 (2.8-4.3)	2.2 (1.7-2.6)	1.7 (1.3-2.0)	1.3 (1.0-1.6)	1.0 (0.8-1.2)	0.8 (0.6-0.9)
2	9.2 (6.1-13)	6.3 (4.2-8.9)	4.0 (2.6-5.5)	3.1 (2.0-4.3)	2.4 (1.6-3.3)	1.8 (1.2-2.6)	1.4 (0.9-2.0)
3	15 (9.8-22)	11 (7.2-15)	7.1 (4.6-10)	5.5 (3.6-8.1)	4.2 (2.7-6.2)	3.2 (2.1-4.8)	2.5 (1.6-3.7)
4	24 (16-32)	18 (12-25)	12 (8.5-17)	9.4 (6.5-14)	7.3 (5.0-11)	5.7 (3.9-8.3)	4.4 (3.0-6.4)
5	35 (29-43)	28 (23-35)	20 (17-25)	16 (13-20)	12 (10-16)	9.7 (8.0-12)	7.5 (6.2-9.6)
6	47	41	32	26	20	16	13

Ten year probability of hip fractures (%) according to BMI, the number of clinical risk factors (CRF) and age in men from Canada.

Age = 75 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	5.0	3.5	2.3	1.7	1.3	1.0	0.8
1	9.1 (6.1-16)	6.6 (4.5-11)	4.4 (3.1-7.7)	3.4 (2.3-5.9)	2.6 (1.8-4.6)	2.0 (1.4-3.5)	1.5 (1.0-2.7)
2	16 (9.1-26)	12 (6.8-20)	8.1 (4.6-13)	6.3 (3.6-10)	4.8 (2.7-8.1)	3.7 (2.1-6.3)	2.9 (1.6-4.8)
3	25 (13-38)	20 (11-31)	14 (8.0-23)	11 (6.2-18)	8.8 (4.7-14)	6.8 (3.6-11)	5.2 (2.7-8.5)
4	36 (21-49)	31 (18-43)	24 (14-35)	19 (10-29)	15 (8.1-23)	12 (6.2-18)	9.2 (4.7-14)
5	49 (33-58)	44 (28-54)	37 (23-46)	31 (18-39)	25 (14-32)	20 (11-26)	16 (8.4-21)
6	61	58	52	45	37	31	25

Age = 80 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	7.2	5.4	3.7	2.9	2.2	1.7	1.3
1	12 (8.4-21)	9.6 (6.7-17)	6.9 (4.9-12)	5.3 (3.7-9.6)	4.1 (2.8-7.4)	3.1 (2.2-5.7)	2.4 (1.6-4.3)
2	20 (12-33)	16 (9.9-27)	12 (7.3-20)	9.4 (5.6-16)	7.3 (4.3-13)	5.6 (3.3-9.7)	4.3 (2.5-7.5)
3	29 (17-43)	25 (15-37)	20 (11-31)	16 (8.5-25)	12 (6.6-20)	9.6 (5.0-16)	7.4 (3.8-12)
4	40 (24-53)	36 (21-48)	31 (17-42)	25 (13-35)	20 (10-28)	16 (8.0-23)	12 (6.1-18)
5	52 (36-61)	48 (32-57)	43 (27-53)	36 (22-45)	30 (17-38)	24 (13-31)	19 (10-25)
6	63	60	57	49	42	35	29

Ten year probability of hip fractures (%) according to BMI, the number of clinical risk factors (CRF) and age in men from Canada.

Age = 85 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	9.1	7.2	5.3	4.0	3.1	2.3	1.8
1	15 (11-26)	12 (8.6-22)	9.5 (6.6-17)	7.3 (5.0-13)	5.6 (3.8-10)	4.3 (2.9-7.8)	3.2 (2.2-5.9)
2	24 (15-38)	20 (13-33)	16 (9.8-27)	12 (7.5-21)	9.7 (5.7-17)	7.5 (4.4-13)	5.7 (3.3-10)
3	34 (21-48)	30 (18-44)	25 (15-38)	20 (11-31)	16 (8.7-25)	12 (6.7-20)	9.7 (5.1-16)
4	46 (29-58)	42 (25-54)	37 (22-48)	30 (17-41)	25 (13-34)	20 (10-28)	16 (7.8-22)
5	57 (41-65)	54 (37-62)	49 (33-59)	42 (27-52)	36 (21-44)	29 (17-37)	24 (13-31)
6	66	65	62	55	48	41	34

Age = 90 years

Number of CRFs	BMI (kg/m ²)						
	15	20	25	30	35	40	45
0	9.8	7.7	5.7	4.4	3.3	2.5	1.9
1	16 (12-28)	13 (9.3-23)	10 (7.1-18)	7.9 (5.4-14)	6.1 (4.1-11)	4.6 (3.1-8.4)	3.5 (2.4-6.4)
2	25 (16-40)	21 (14-35)	17 (11-29)	13 (8.1-23)	10 (6.2-18)	8.1 (4.7-14)	6.2 (3.6-11)
3	36 (23-51)	32 (20-46)	27 (16-40)	22 (12-33)	17 (9.4-27)	13 (7.2-21)	10 (5.5-17)
4	48 (31-60)	44 (27-56)	39 (23-51)	32 (18-43)	26 (14-36)	21 (11-30)	17 (8.4-24)
5	58 (44-66)	56 (40-64)	52 (35-61)	45 (28-54)	38 (23-47)	31 (18-39)	25 (14-33)
6	66	66	64	57	51	44	37